April 1976 Number 380-Part II

Solar-Geophysical Data comprehensive reports

Data for October 1975–September 1975 & Miscellanea

Explanation of Data Reports Issued as Number 378 (Supplement) February 1976

NEW DATA PAGE 22

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Solar - Geophysical Data

NO. 380 APRIL 1976

Part II (Comprehensive Reports)

DATA FOR
OCTOBER 1975
SEPTEMBER 1975
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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SOLAR - GEOPHYSICAL DATA

No. 380

Issued in two parts

Hope I. Leighton, Editor

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Solar - Terrestrial Data Services Division

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Note: A = Part I, B = Part II.

374A 28 listed under 1975 Aug shows that data for August 1975 were contained in *Solar-Geophysical Data* Number 374 - Part I beginning on page 28.

Errata: In "Solar-Geophysical Data, Explanation of Data Reports" published February 1976 the "Key" to the index for 1975 on page 83 is in error on five lines. A.11g should read A.11e; A.11h read A.11g; A.12ba read A.11h; A.12bb read A.12ba; and A.12d read A.12bb.

OCTOBER 1975 DATA

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Hα SOLAR FLARES

OCTOBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE 1975 OCT	START	MAX. PHASE	END	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
	01	0000	0035	NO FLARE PATROL													
	01	0042	0047	NO FLARE PATROL													
	01	0125	0150	NO FLARE PATROL													
	01	0209	0225	NO FLARE PATROL													
893 BOUL	01	1419	1423	1434	N39	E80	.978	13875	7.6	15	-F	2	C	1423	21	.7	
	02	0006	0010	NO FLARE PATROL													
	02	0117	0132	NO FLARE PATROL													
	02	0206	0214	NO FLARE PATROL													
	02	0224	0235	NO FLARE PATROL													
	02	0258	0304	NO FLARE PATROL													
	02	0308	0343	NO FLARE PATROL													
	02	0347	0355	NO FLARE PATROL													
	02	0423	0432	NO FLARE PATROL													
	02	0436	0442	NO FLARE PATROL													
894 HTPR	02	1452	1453	1459	N32	E64	.902	13875	7.4	7	-F		C	1453	20	.4	E
	03	0015	0019	NO FLARE PATROL													
	03	0344	0410	NO FLARE PATROL													
GRP62895	03	1153+1	1157+3	1216	N32	E53	.823	13875	7.5	23	-F				20	.4	
HTPR	03	1153	1200	1230	N32	E51	.806	13875	7.3	37	-N		C	1200	10	.2	E
MONT	03	1154	1157	1159	N32	E53	.823	13875	7.5	5	-F			1157	20		
KHAR	03	1156E		1216D	N33	E54	.833	13875	7.5	200	-F		P	1156	70	1.4	D
896 CULG	04	0424	0432	0446	N32	E45	.754	13875	7.6	22	-F		C	0432	30	.4	
897 HTPR	04	0633E		0645	N33	E43	.741	13875	7.5	120	-F		C	0635	40	.6	E
898 HTPR	04	1116	1117	1119	N32	E36	.670	13875	7.2	3	-F		C	1117	20	.3	
899 HTPR	04	1220	1220	1223	N32	E35	.660	13875	7.1	3	-N		C	1220	30	.5	E
900 HTPR	04	1302	1304	1310	N32	E35	.660	13875	7.2	8	-F		C	1304	10	.1	
GRP62901	05	0851E	0854+0	0859	N34	E24	.578	13875	7.2	8	-F				30	.4	H
ATHN	05	0851E	0854	0859	N34	E24	.578	13875	7.2	80	-F	3	V		32		DE H
ATHN	05	0851E	0854	0859	N34	E24	.578	13875	7.2	80	-F	3	C		32		DE H
902 CULG	05	2130	2133	2142	S08	W39	.663		3.0	12	-F		C	2133	10	.1	
903 MCMA	06	1355	1405	1450	N33	E14	.493	13875	7.6	55	-F		C	1405	35	.4	EH
	06	2342	2347	NO FLARE PATROL													
	06	2350	2357	NO FLARE PATROL													
	07	0043	0050	NO FLARE PATROL													
	07	0053	0144	NO FLARE PATROL													
	07	0148	0155	NO FLARE PATROL													
904 MCMA	07	2024	2025	2038	N33	W03	.450	13875	7.6	14	-N		C	2025	50	.5	EH
905 RAMY	08	1406	1415	1420	N32	W20	.526	13875	7.1	14	-F	4	C		45		DE
	08	1555	1609	NO FLARE PATROL													
	08	1612	1707	NO FLARE PATROL													
	08	2103	2331	NO FLARE PATROL													
GRP62906	08	2341E	2342	2355D	N32	W21	.534	13875	7.4	14	-F				20	.2	
PALE	08	2341E	2342	2352D	N33	W21	.545	13875	7.4	110	-F	3	C		23		
MANI	08	2343E	2343U	2355D	N32	W21	.534	13875	7.4	120	-F	2	V	2343	20	.2	
GRP62907	09	0848+2	0848+2	0856	N32	W26	.578	13875	7.4	8	-F				40	.5	
MANI	09	0848E	0848U	0852D	N32	W26	.578	13875	7.4	40	-F	2	V	0848	30	.4	F
CATA	09	0850	0850	0900	N33	W27	.597	13875	7.3	10	-N	3		0850		.7	
ATHN	09	0851E	0851U	0856	N32	W26	.578	13875	7.4	50	-F	4	V		48		FDE
ATHN	09	0851E	0851U	0856	N32	W26	.578	13875	7.4	50	-F	4	C		48		FDE
GRP62908	09	1618+0	1625+2	1641	N32	W32	.635	13875	7.3	23	-F				40	.5	F
RAMY	09	1618	1625	1639	N31	W34	.647	13875	7.1	21	-F	3	C		36		F
HTPR	09	1618		1627D	N32	W29	.597	13875	7.6	90	-N		C	1626	50	.6	
BOUL	09	1624E	1629	1643	N32	W33	.644	13875	7.2	190	-F	1	F	1628	10	.1	
	11	0341	0350	NO FLARE PATROL													
	11	2207	2217	NO FLARE PATROL													

Hα SOLAR FLARES

OCTOBER 1975

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 OCT	START	MAX PHASE	END	APPROX LAT.	APPROX LONG. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		CONF	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
909 CATA	12	1225E	1250	1310D	N05	E37	.600	13890	15.3	45D	-F	3		1250		.7	
910 CATA	12	1325E	1325	1335D	N05	E37	.600	13890	15.3	10D	-F	3		1325		1.1	
911 CATA	13	0825	0825	0830D	S11	E60	.884	13892	17.9	5D	1N	3		0825		4.9	
912 MCMA	13	1615	1635	1705	N05	E20	.341	13890	15.2	50	-N		C	1635	100	1.1	E
	14	0021	0023	NO FLARE PATROL													
	14	0024	0030	NO FLARE PATROL													
	14	0040	0045	NO FLARE PATROL													
GRP62913	14	0809		0845	N06	E12	.207	13890	15.2	37	-N						
ISTA	14	0808		0820	N05	E16	.275	13890	15.5	12	-N						
HTPR	14	0809E		0903D	N06	E11	.190	13890	15.2	54D	-N		C	0814	60	.6	
CATA	14	0845E	0845	0845D	N06	E09	.156	13890	15.0		-N	3		0845		1.2	
914 HTPR	14	0916E		0935D	N06	E11	.190	13890	15.2	17D	-N		C	0934	50	.5	
915 KHAR	14	1020E		1030D	N05	E08	.140	13890	15.0	10D	-F		P	1020	70	.7	T
916 HTPR	14	1132	1132	1133	N05	E05	.088	13890	14.9	1	-N		C	1132	40	.4	
917 HTPR	14	1225	1225	1229	N05	E04	.071	13890	14.8	4	-N		C	1226	40	.4	
918 HTPR	14	1426	1429	1440	N05	E06	.105	13890	15.1	14	-F		C	1429	20	.2	
GRP62919	14	1519+1	1538+2	1635	N05	E05	.088	13890	15.0	76	-F				60	.6	EK
MCMA	14	1519E		1745D	N05	E05	.088	13890	15.0	146D	-N		P	1521	40	.4	EK
HTPR	14	1520	1540	1604	N05	E04	.071	13890	14.9	44	-F		C	1540	60	.6	E
BOUL	14	1537	1538	1635	N05	E05	.088	13890	15.0	58	-F	2	C	1538	64	.6	
	14	2151	2155	NO FLARE PATROL													
	14	2159	2205	NO FLARE PATROL													
920 ABST	15	0605E	0607	0609D	N07	W03	.055	13890	15.0	4D	-F		P	0607	87	.9	DJ
921 ABST	15	0620E	0623	0635D	N10	W05	.112	13890	14.9	15D	-F		P	0623	87	.8	EJ
922 ABST	15	0715E	0717	0731D	N08	W04	.078	13890	15.0	16D	-N		P	0717	79	.9	DJK
GRP62923	15	0840+1	0843	0855	N02	W05	.110	13890	15.0	15	-N				110	1.1	D
BUCA	15	0840		0855	N02	W05	.110	13890	15.0	15	-N		P	0842	107	1.2	
ABST	15	0841	0843	0851	N02	W04	.097	13890	15.1	10	-N		C	0843	105	1.1	D
CATA	15	0845E	0845	0855	N02	W05	.110	13890	15.0	10D	-F	3		0845		.9	
	16	1332	1339	NO FLARE PATROL													
	16	1506	1520	NO FLARE PATROL													
	16	2030	2020	NO FLARE PATROL													
	16	2101	2132	NO FLARE PATROL													
	17	1000	1039	NO FLARE PATROL													
	18	0216	0246	NO FLARE PATROL													
	18	0256	0325	NO FLARE PATROL													
	18	0331	0335	NO FLARE PATROL													
	18	0407	0410	NO FLARE PATROL													
924 HTPR	18	0940	0940	0946	N07	W49	.740	13890	14.8	6	-F		C	0940	20	.2	
	19	0331	0346	NO FLARE PATROL													
	19	0352	0422	NO FLARE PATROL													
	19	0429	0601	NO FLARE PATROL													
925 VORO	20	0053	0054	0100	N05	W68	.925	13890	14.9	7	-N		C	0054	63	1.6	EJ
926 HTPR	20	0813		0817D	S12	W30	.568	13892	18.1	4D	-F		C	0814	30	.4	E
927 ISTA	20	0815		0827	S10	W45	.736	13892	17.0	12	-N						
	20	0951	1017	NO FLARE PATROL													
	20	1539	1554	NO FLARE PATROL													
	21	0335	0340	NO FLARE PATROL													
928 HTPR	21	0813	0814	0821	N05	E30	.498	13904	23.6	8	-F		C	0814	10	.1	
GRP62929	21	0855+2	0902+0	0916	N04	E27	.453	13904	23.4	21	-F						DGL
HTPR	21	0855	0902	0916	N05	E28	.468	13904	23.5	21	-F		C	0902	10	.1	
ABST	21	0857	0902	0907D	N03	E27	.454	13904	23.4	10D	-F		P	0902	77	.9	DGL

Hα SOLAR FLARES

OCTOBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 OCT	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		CONQ	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
	22	0021	0026	NO FLARE PATROL													
	22	0121	0125	NO FLARE PATROL													
	23	0212	0215	NO FLARE PATROL													
	23	0340	0412	NO FLARE PATROL													
	23	0416	0436	NO FLARE PATROL													
	23	0439	0453	NO FLARE PATROL													
	23	0509	0518	NO FLARE PATROL													
930 ATHN	23	0638	0639	0644	N02	E07	.134	13904	23.8	6	-N	4	V		16		CE
	23	1948	2120	NO FLARE PATROL													
	23	2140	2215	NO FLARE PATROL													
	24	0225	0238	NO FLARE PATROL													
	24	2028	2100	NO FLARE PATROL													
	24	2158	2202	NO FLARE PATROL													
	26	0255	0256	NO FLARE PATROL													
	30	0236	0306	NO FLARE PATROL													
	30	1639	1650	NO FLARE PATROL													
	30	1654	1703	NO FLARE PATROL													
	30	2104	2209	NO FLARE PATROL													
	30	2221	2234	NO FLARE PATROL													
	31	0242	0319	NO FLARE PATROL													
	31	0322	0334	NO FLARE PATROL													
	31	1844	1852	NO FLARE PATROL													
	31	2015	2025	NO FLARE PATROL													
	31	2053	2209	NO FLARE PATROL													

DAILY FLARE INDICES
Includes all Flares

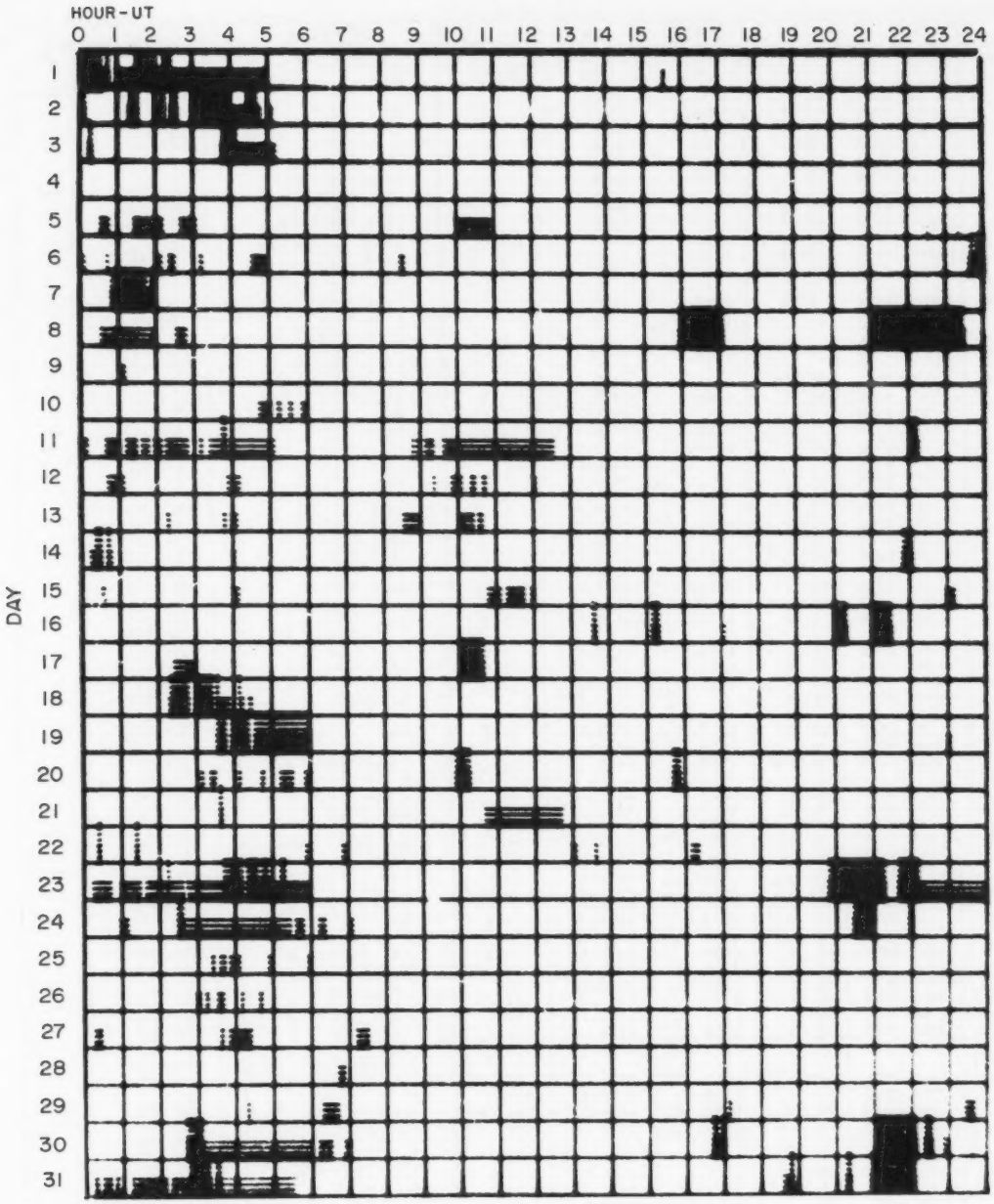
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
751001	.86	22.7	751011	0.00	23.7	751020	6.27	23.3
751002	.87	22.3	751012	6.76	24.0	751021	6.76	23.9
751003	.21	23.5	751013	8.66	24.0	751022	0.00	23.8
751004	9.50	24.0	751014	33.57	23.6	751023	5.97	20.6
751005	2.38	24.0	751015	22.22	24.0	751024	0.00	23.2
751006	3.38	23.8	751016	0.00	22.3	751026	0.00	24.0
751007	3.47	23.0	751017	0.00	23.4	751030	0.00	21.9
751008	4.09	20.4	751018	1.96	22.9	751031	0.00	21.6
751009	1.69	24.0	751019	0.00	21.7			

When no Flare Index is given, it is 0 for that day.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

OCTOBER 1975



Observatories included in total patrol:

Abastumani	Culgoora	Kharkov	McMath-Hulbert	Tachkent
Arcetri	Haute Provence	Kiev	Meudon	Tehran
Athenes	Herstmonceux	Kodaikanal	Mitaka	Upice
Boulder	Huancayo	Locarno	Monte Mario	Voroshilov
Bucharest	Hurbanovo	Lvov	Palehua	Wendelstein
Catania	Istanboul	Manila	Ramey	

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

OCTOBER 1975

OCT 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
1	113	POTS	45 C	0753.9	0754	0.4	200	50		
	221	ABST	41 F	0833.2	0834.5	1.5	22			
	221	ABST	41 F	1026.2	1027	1	50			
	18	MCMA	6	1211	1214	5				
	18	MCMA	6	1231	1232	3				
	18	MCMA	6	1357	1358	2				
2	3100	CRIM	24 R	0730	0856		2			
	2800	OTTA	24 R	1835	1845	10	0.6	0.3		
	2800	OTTA	27 RF	1835		105	0.6	0.5		
	2800	OTTA	24P R	1845		75	0.6			
	2800	OTTA	26 FAL	2000	2020	20	-0.6	-0.3		
3	2800	OTTA	1 S	2140.9	2142	2	1.4	0.8		
	2695	PENT		2140.9						NULL
4	18	MCMA	6	2048	2050	4			1	
5	3100	CRIM	26 FAL	0620	0838		5	1		
	100	GORK	41 F	0742.8	0743.4	1.7	10			
	100	GORK			0744.2		20			
	200	GORK	6 S	0743.2	0744.1	1.3	40			
	200	GORK	41 F	0850.1	0850.3	4.1	25			
	200	GORK			0852.2		10			
	200	GORK			0853.9		60			
	100	GORK	41 F	0858.2	0858.7	2	15			
	100	GORK			0859.8		15			
	200	GORK	41 F	1034.4	1036.9	6.2	15			
	200	GORK			1040.1		60			
	100	GORK	41 F	1034.6	1035.2	2.7	15			
	100	GORK			1036.9		15			
	100	GORK	41 F	1040	1040.2	0.7	15			
	9240	ARCE	20	1119.8	1146.6	136				
	930	BORD	1 S	1432.7	1432.7	0.1	10	1		
6	9240	ARCE	1	1156.4	1157.2	1.5				
	930	BORD	45 C	1217.2	1217.3	0.1	12	2		
	2695	ATHN	45 C	1530.3	1531.4	3.8	24.2U	20.2U		
	2695	ATHN	45 C		1533.1		67.2U			
7	221	ABST	45 C	0828.8	0830.2	1.5	43	35		
	9240	ARCE	2	0839.1	0840	1.5				
	2800	OTTA	20 GRF	2025	2030	30	0.6	0.3		
8	207	WORD	46 C	0105	0107	6	20			
	221	ABST	6 S	0903.2	0904	1.2	41			
	18	MCMA	41	1303	1305	2			1	
	245	SGMR	6 S	1656	1658.6	4	152	30.4		
	410	SGMR	6 S	1656.1	1658.4	3.4	21.2	4.2		
	1420	BOUL	8 S	1656.5	1657.5	1.5	7	3		
	1415	SGMR	2 S/F	1657.5	1658.3	1.8	7.9	2.4		
	606	SGMR	4 S/F	1657.9	1658.4	.8	17.6	5.3		
	930	BORD	45 C	1658.1	1658.7	0.6	47	8		
	18	MCMA	6	1658	1702	4			1	
	2695	BOUL	45 C	2335	2340.5	2.5	9	3		
	4995	BOUL	45 C	2337.5	2338.5	2	10	3		
	2695	PENT	45 C	2337	2339.5	4	3	1.4		
	2000	TYKW	45 C	2338	2338.6	3	1.7	0.8		OL
	3750	TYKW	45 C	2338	2338.7	3	5	2		OR
	9400	TYKW	5 S	2338	2340	4	3	1		OR
	207	WORD	40 F	2341	2343	3	48			
9	2000	TYKW	5 S	0241	0244	7	1	0.4		OL
	9240	ARCE	20	1008.2	1028.3	166				
	245	SGMR	44 NS E	1053	1345.8	561 D	22.6			
	2800	OTTA	20 GRF	1615	1625	25	1	0.5		
10	200	HIRA	45 C	0535.5	0535.6U	1	370 D	160 D		WL
	100	HIRA	45 C	0535.7	0535.8	0.5	80	30		SR
	200	GORK	6 S	0536	0536.2U	8.5	65 D			
	1420	ARCE	20	0815.8	0837.2	54				
	9240	ARCE	21	0815.4	0829.6	48.5				
	9240	ARCE	40	0839.5	0842.5	5.5				
	9240	ARCE	5	0853.1	0853.5	1.4				
	9240	ARCE	20	0906.4	0909.4	11				
	3100	CRIM	20 GRF	0929	1100	91	2			
	9240	ARCE	1	0930.4	0931	1.5				
	3100	CRIM	1 S	1104	1105	6	3	1		
	1420	ARCE	20	1317.2	1359	110				
	9240	ARCE	20	1342.1	1344.2	12				
	3000	BERL	4	1344.7	1345.5	2.3	9.1	2.2		
	9240	ARCE	1	1439.5	1439.8	2.5				
11	221	ABST	41 F	0805.8	0806	1.5	29			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

OCTOBER 1975

OCT 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
	221	ABST	6 S	0827	0827.2	1	29	14		
	221	ABST	41 F	0906	0907.2	1.5	24			
12	18	MCMA	6	1401	1404	3			1	
	4995	BOUL	1 S	1823	1824.5	3.5	6	2		
13	3100	CRIM	24 R	0814	0849		3	1		
	221	ABST	41 F	1028.5	1030.2	1.8	13			
	2800	OTTA	20 GRF	1620	1635	35	1.4	0.7		
14	9500	BERL	1	1224.2	1224.9	1.3	4.8	2.5		
	3000	BERL	1	1224.5	1224.9	1	3.4	1.2		
15	260	ONDR	44 NS	0723 E		439 D	47			
	410	SGMR	43 NS	1324.1	1554.5	513.9D	33.6			
	245	SGMR	43 NS	1324.3	1349.4	513.7D	33.8			
	221	ABST	41 F	0818	0818.5	1	24			
	221	ABST	41 F	0827.2	0830	2.8	35			
	29	UPIC	4 S/F	1045.6	1046.1	1.6				
	33	UPIC	4 S/F	1045.9	1046	0.7				
16	221	ABST	41 F	0848.2	0848.8	1.2	10			
	930	BORD	1 S	1101.3	1101.3	0.1	8	1		
	18	MCMA	6	2011	2013	2			1	
17	100	GORK	41 F	0804.1	0804.3	0.9	40 D			
	100	GORK			0804.8		40 D			
	221	ABST	6 S	0833.5	0833.8	1	32			
	33	UPIC	4 S/F	0833.9	0834.1	0.9				
	113	POTS	40 F	0833.9	0834	0.1	140	15		
	29	UPIC	4 S/F	0834	0834.3	1.1				
	200	GORK	41 F	0834.1	0834.2U	1	80 D			
	200	GORK			0834.8U		80 D			
	221	ABST	41 F	1027	1027.5	1	32			
	260	ONDR	4 S/F	1041.2	1041.8	2.5	31	4		
	221	ABST	45 C	1050	1050.5	1	25	9		
	33	UPIC	45 C	1051.5	1052.4	2.4				
	29	UPIC	45 C	1051.7	1052.6	2.3				
	113	POTS	40 F	1051.7	1051.7	0.4	150	15		
	410	SGMR	44 NS	1102 E	1204.1	653 D	3.1			
	245	SGMR	44 NS	1102 E	1203.9	653 D	35.7			
	260	ONDR	42 SER	1152	1210.8	70	21			
	33	UPIC	45 C	1203.5	1204	2				
	29	UPIC	45 C	1203.6	1204.3	2.7				
	260	ONDR	42 SER	1357.5	1415.8	27	15			
	18	MCMA	6	1746	1749	3			1	
19	260	ONDR	42 SER	1128	1158.2	82	10			
20	260	ONDR	44 NS	0730 E		380	19			
	250	OWIN	45 C	0936	0936.5	1	10	3		
	260	OWIN	45 C	0936	0936.5	1	10	3		
	160	OWIN	45 C	0936	0936.5	1	70	10		
	169	OWIN	45 C	0936	0936.5	1	70	10		
	234	OWIN	45 C	0936	0936.5	1	10	3		
	930	BORD	1 S	1104.6	1104.6	0.1	15	1		
21	100	GORK	6 S	0706.5	0706.6	1.1	30			
	100	GORK	41 F	0826.7	0827	2.5	50 D			
	100	GORK		0826.7	0827.3		50 D			
	221	ABST	45 C	0838.2	0838.5	1	10	6		
	221	ABST	41 F	1052.2	1052.8	0.8	27			
	221	ABST	45 C	1057.5	1058	1	31	24		
22	221	ABST	41 F	0740	0740.2	1.5	31			
	930	BORD	1 S	0802.7	0802.7	0.1	26	1		
	221	ABST	6 S	1051.8	1052	0.5	27			
	18	MCMA	41	2007	2011	4			1	
	18	MCMA	6	2026	2030	4			1	
	18	MCMA	41	2056	2058	5			1	
23	221	ABST	41 F	0810	0810	0.5	29			
	4995	BOUL	3 S	1859	1900	2.5	9	3		
	2695	BOUL	3 S	1900.5	1901.5	4.5	5	2		
24	9240	ARCE	22	1046.5	1056.2	12				
	2800	OTTA	20 GRF	1435	1545	220	1.4	0.7		
27	221	ABST	6 S	1048.2	1048.8	0.8	74			
	221	ABST	6 S	1052	1052	0.5	58			
28	720	SYDN	4 S/F	0346.6	0346.8	0.7				
	720	SYDN	8 S	0347.3	0347.6	0.5				
	720	SYDN	8 S	0424.3	0424.7	0.7				
	1420	SYDN	1 S	0424.4	0424.7	0.5				

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

OCTOBER 1975

OCT 1975	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	POLARIZATION OR REMARKS
	221	ABST	6 S	0812.8	0813	0.5	26			
	260	ONDR	8 S	0836.4	0836.4	0.2	8			
	221	ABST	6 S	1057	1057.2	0.5	52			
29	221	ABST	41 F	0818	0818	0.5	16			
30	930	BORD	45 C	0721	0721.5	0.5	10	2		
	221	ABST	41 F	0833.5	0834	0.5	17	7		
	930	BORD	45 C	1601.7	1602.3	0.6	11	2		
31	221	ABST	41 F	1012.8	1013.2	0.8	36			

Reports received from the following observatories:

ABST = Abastumani
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol
DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow Izmiran
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov (Ussurisk)

SEPTEMBER 1975 DATA

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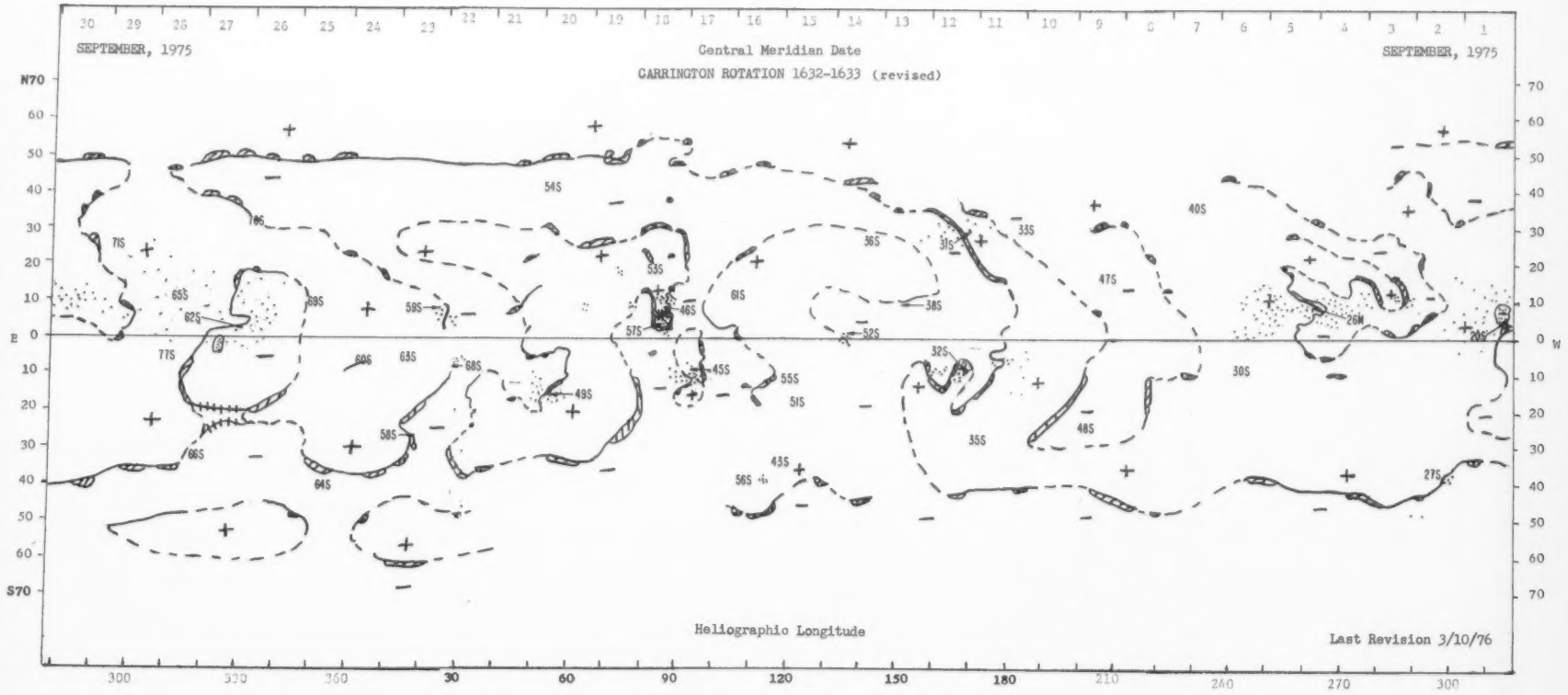
ABBREVIATED CALENDAR RECORD

Hα SYNOPTIC CHART

SEPTEMBER 1975



ABBREVIATED CALENDAR RECORD

SEPTEMBER 1975

Sep. 1, 1975

FLARES: — 1n/26

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 7 — Kp: 1- | 2- | 2- | 2o | 2- | 3- | 2+ | 2-

Aurora — sc; USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- moderately br. SE- W. Limb 7 days later: NW- no data SW- no data

Indices — Rz: 14 (Final) 10cm flux: 86 Flare: 13/24.0 Ca: no data Ip: 6 Ia: 1

Solar Regions — 13820 N05 (4)

Sunspots — (19612) N03 α CMP Aug. 31
19614 N00 (αp)2 CMP Aug. 31
(19616) N10 (α)3

Sep. 2, 1975

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 6 — Kp: 3o | 2o | 1+ | 1o | 1+ | 2o | 1o | 1+

Aurora — sc; USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- bright, no data 20° SE W. Limb 7 days later: NW- SW-

Indices — Rz: 16 10cm flux: 86 Flare: 6/21.0 Ca: 18.5 Ip: 0 Ia: 2

Solar Regions — 13827 S36

Sunspots

Sep. 3, 1975

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 3QQ — Kp: 1+ | 0o | 1- | 0+ | 1- | 1+ | 1o | 1-

Aurora — sc; USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- moderately br. SE- W. Limb 7 days later: NW- moderately br. SW-

Indices — Rz: 19 10cm flux: 86 Flare: 19/23.8 Ca: 18.2 Ip: 0 Ia: 0

Solar Regions

Sunspots

Sep. 4, 1975

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 3QQ — Kp: 0+ | 1- | 1- | 0+ | 1- | 0+ | 1- | 1o

Aurora — sc; USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- SW-

Indices — Rz: 29 10cm flux: 91 Flare: 33/23.5 Ca: 19.6 Ip: 0 Ia: 0

Solar Regions

Sunspots

Sep. 5, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 40	Kp	1o 1- 1- 1o 1- 1o 1+ 2-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE- no data	SE- no data W. Limb 7 days later: NW- bright SW-
Indices	Rz: 25	10cm flux: 93 Flare: 1/24.0 Ca: no data Ip: 0 Ia: 0
Solar Regions	13826 N08 (2)	
Sunspots	(19615) N12 α CMP Sep. 3 19617 N08 (β)3 19618 N10 (αf)1 CMP Sep. 4 (19619) N07 (αp)1 CMP Sep. 3	

Sep. 6, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

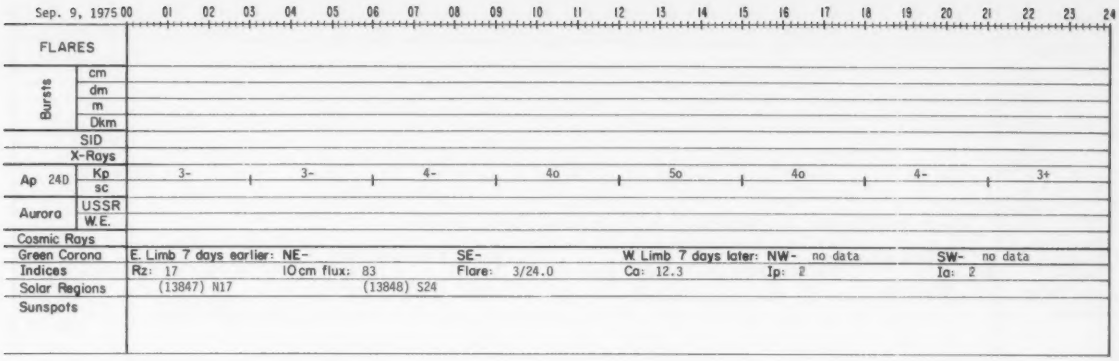
FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 13	Kp	3- 2o 2o 3+ 3+ 3+ 2- 3o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE- no data	SE no data W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 24	10cm flux: 92 Flare: 1/23.0 Ca: 17.5 Ip: 0 Ia: 0
Solar Regions	(13830) S09 S12	
Sunspots		

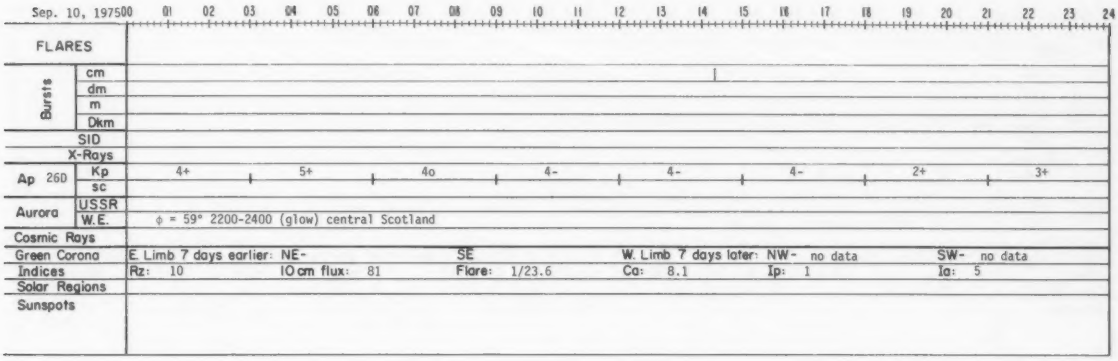
Sep. 7, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

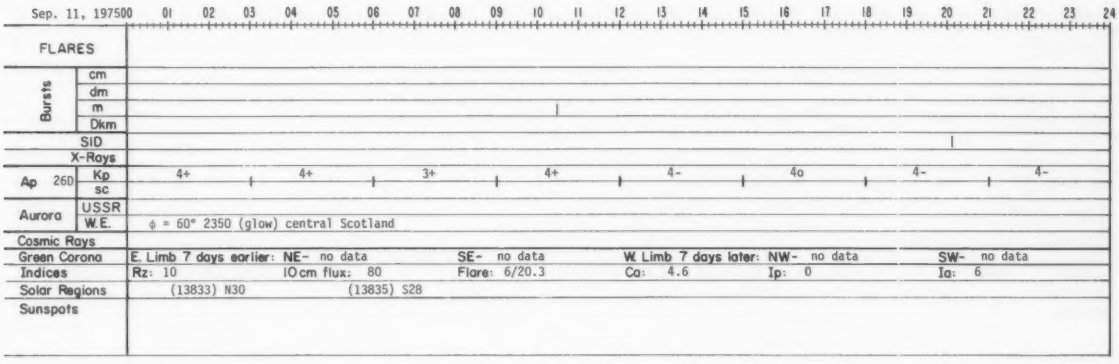
FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 7	Kp	2o 2o 2+ 3- 1+ 1- 1- 2o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE- no data	SE- no data W. Limb 7 days later: NW- SW-
Indices	Rz: 24	10cm flux: 90 Flare: 3/23.2 Ca: 16.1 Ip: 0 Ia: 0
Solar Regions	(13840) N36	
Sunspots		

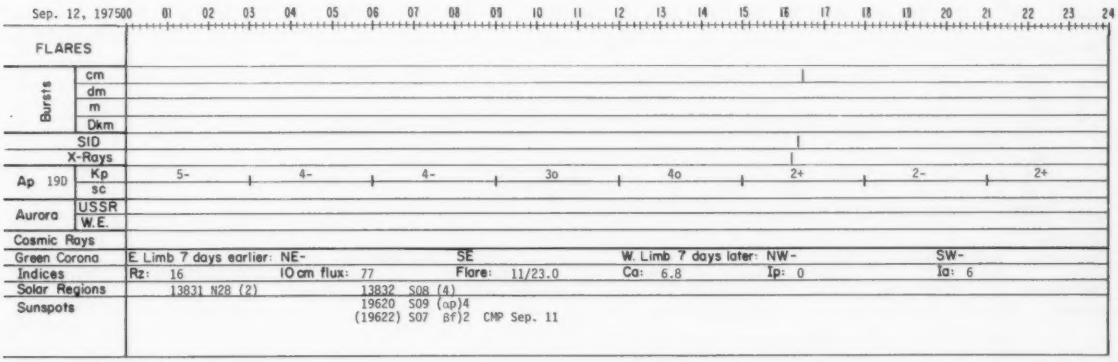
Sep. 8, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 6	Kp	2+ 1+ 1+ 1o 2o 2- 2- 2o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona	E. Limb 7 days earlier: NE-	SE W. Limb 7 days later: NW- no data SW- no data
Indices	Rz: 23	10cm flux: 87 Flare: 15/23.3 Ca: 15.6 Ip: 0 Ia: 0
Solar Regions		
Sunspots		


Sep. 9, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 24D
Kp
3- 3- 4- 4o 5o 4o 4- 3+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 17 10cm flux: 83 Flare: 3/24.0 Ca: 12.3 Ip: 2 Ia: 2
Solar Regions
(13847) N17 (13848) S24
Sunspots


Sep. 10, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 26D
Kp
4+ 5+ 4o 4- 4- 4- 2+ 3+
sc
Aurora
USSR
W.E.
ϕ = 59° 2200-2400 (glow) central Scotland
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 10 10cm flux: 81 Flare: 1/23.6 Ca: 8.1 Ip: 1 Ia: 5
Solar Regions
Sunspots


Sep. 11, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 26D
Kp
4+ 4+ 3+ 4+ 4- 4o 4- 4-
sc
Aurora
USSR
W.E.
ϕ = 60° 2350 (glow) central Scotland
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices
Rz: 10 10cm flux: 80 Flare: 6/20.3 Ca: 4.6 Ip: 0 Ia: 6
Solar Regions
(13833) N30 (13835) S28
Sunspots


Sep. 12, 1975
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FLARES
Bursts
cm
dm
m
Dkm
SID
X-Rays
Ap 19D
Kp
5- 4- 4- 3o 4o 2+ 2- 2+
sc
Aurora
USSR
W.E.
Cosmic Rays
Green Corona
E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- SW-
Indices
Rz: 16 10cm flux: 77 Flare: 11/23.0 Ca: 6.8 Ip: 0 Ia: 6
Solar Regions
13831 N28 (2) 13832 S08 (4)
19620 S09 (ap)4
(19622) S07 Bf)2 CMP Sep. 11
Sunspots

Sep. 13, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 17 — Kp: 4o | 4+ | 2+ | 4+ | 2- | 1o | 2- | 4-

Aurora — sc; USSR; W.E.: φ = 60° 0030-0100 (glow) central Scotland; φ = 58° 2345 (glow) southern Scotland

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- ; SE- ; W. Limb 7 days later: NW- ; SW-

Indices — Rz: 19 ; 10cm flux: 74 ; Flare: 5/23.1 ; Ca: 6.8 ; Ip: 0 ; Ia: 3

Solar Regions: (13838) N09

Sunspots

Sep. 14, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 13 — Kp: 4o | 3+ | 3+ | 3- | 3+ | 1o | 1o | 1-

Aurora — sc; USSR; W.E.: φ = 60° 0050 (glow) central Scotland

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- ; SE ; W. Limb 7 days later: NW- no data ; SW- no data

Indices — Rz: 17 ; 10cm flux: 73 ; Flare: 4/22.5 ; Ca: 7.9 ; Ip: 0 ; Ia: 2

Solar Regions: (13836) N27 ; (13852) N01

Sunspots

Sep. 15, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 8 — Kp: 1+ | 1+ | 3+ | 1o | 1o | 2- | 2+ | 2+

Aurora — sc; USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data ; SE- no data ; W. Limb 7 days later: NW- no data ; SW- no data

Indices — Rz: 8 ; 10cm flux: 73 ; Flare: 3/23.3 ; Ca: 7.1 ; Ip: 0 ; Ia: 1

Solar Regions: 13851 S18 ; (13855) S11

Sunspots

Sep. 16, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 6Q — Kp: 2+ | 3- | 1+ | 1o | 1+ | 1o | 1o | 1-

Aurora — sc; USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- ; SE ; W. Limb 7 days later: NW- no data ; SW- no data

Indices — Rz: 14 ; 10cm flux: 74 ; Flare: 1/24.0 ; Ca: 5.9 ; Ip: 0 ; Ia: 0

Solar Regions: (13843) S34 ; (13856) S39 ; (13861) N12

Sunspots

Sep. 17, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 13	Kp	1+ 3o 3o 1- 3- 3- 4- 3+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-
Indices		Rz: 14 10cm flux: 74 Flare: 5/23.8 Ca: 5.3 Ip: 0 Ia: 1
Solar Regions		13845 S09
Sunspots		(19621) S08 (ap)1

Sep. 18, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	noise storm
	Dkm	
SID		
X-Rays		
Ap 14	Kp	3- 2+ 2o 2+ 3+ 4- 4o 3-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- SW-
Indices		Rz: 18 10cm flux: 76 Flare: 9/23.7 Ca: no data Ip: 0 Ia: 0
Solar Regions		13846 N08 (13857) N04 (13853) N19
Sunspots		19623 N09 (δ)3 (19624) N04 (β)2

Sep. 19, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 8	Kp	2+ 1+ 3- 2+ 3- 1+ 2- 2-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 13 10cm flux: 76 Flare: 64/24.0 Ca: no data Ip: 0 Ia: 2
Solar Regions		
Sunspots		

Sep. 20, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 7	Kp	1+ 2- 2- 1+ 1+ 3- 2o 2+
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW-
Indices		Rz: 30 10cm flux: 76 Flare: 15/23.5 Ca: 6.0 Ip: 0 Ia: 0
Solar Regions		(13854) N41 13849 S15 (β)
Sunspots		19625 S16 (β)1

Sep. 21, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES — 1b/--

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 6 — Kp: 3o | 1o | 0+ | 1- | 1o | 2o | 2o | 1o

sc

Aurora: USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- ; SE- ; W. Limb 7 days later: NW- no data ; SW- no data

Indices — Rz: 27 ; 10cm flux: 76 ; Flare: 8/23.5 ; Ca: 5.1 ; Ip: 0 ; Ia: 1

Solar Regions

Sunspots

Sep. 22, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 40 — Kp: 1+ | 1o | 1o | 1- | 1o | 1- | 1o | 1o

sc

Aurora: USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data ; SE no data ; W. Limb 7 days later: NW- ; SW-

Indices — Rz: 23 ; 10cm flux: 75 ; Flare: 21/23.3 ; Ca: no data ; Ip: 0 ; Ia: 0

Solar Regions — (13868) S07

Sunspots

Sep. 23, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 40 — Kp: 3- | 1+ | 1o | 1o | 0+ | 0+ | 0+ | 1-

sc

Aurora: USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data ; SE- no data ; W. Limb 7 days later: NW- ; SW-

Indices — Rz: 0 ; 10cm flux: 76 ; Flare: 2/24.0 ; Ca: 4.2 ; Ip: 0 ; Ia: 1

Solar Regions — 13859 N07 ; (13858) S26 ; (13863) S05

Sunspots — (19626) N06 (sp)2

Sep. 24, 1975 — 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES

Bursts: cm; dm; m; Dkm

SID

X-Rays

Ap 200 — Kp: 0+ | 1- | 1- | 0+ | 0o | 0o | 0+ | 1o

sc

Aurora: USSR; W.E.

Cosmic Rays

Green Corona — E. Limb 7 days earlier: NE- no data ; SE no data ; W. Limb 7 days later: NW- no data ; SW- no data

Indices — Rz: 0 ; 10cm flux: 76 ; Flare: 7/24.0 ; Ca: 3.8 ; Ip: 0 ; Ia: 0

Solar Regions — (13860) S06

Sunspots — S15

Sep. 25, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 300	Kp	1- 1o 1o 0+ 0+ 1- 0+ 1-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10.cm flux: 76 Flare: 0/22.7 Ca: no data Ip: 0 Ia: 0
Solar Regions		(13864) S40 (13869) N10
Sunspots		

Sep. 26, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 14	Kp	2- 3o 2+ 2- 3+ 3+ 3+ 4-
	sc	
Aurora	USSR	
	W.E.	ϕ = 60° 2050-0400 (glow) central Scotland
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10.cm flux: 76 Flare: 0/24.0 Ca: no data Ip: 0 Ia: 2
Solar Regions		
Sunspots		

Sep. 27, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 14	Kp	4+ 3- 4- 2+ 3- 3o 2+ 1+
	sc	
Aurora	USSR	
	W.E.	ϕ = 60° 0000-0400 (glow) central Scotland
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 0 10.cm flux: 75 Flare: 0/24.0 Ca: 5.6 Ip: 0 Ia: 2
Solar Regions		(13876) N32 13862 N02 (5) (19627) N03 (αp)2
Sunspots		

Sep. 28, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 8	Kp	2o 2o 2- 3- 2- 3o 1- 2o
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW-
Indices		Rz: 0 10.cm flux: 76 Flare: 0/23.0 Ca: 7.0 Ip: 0 Ia: 0
Solar Regions		(13866) S32 13865 N11 (5) (13877) S05
Sunspots		

Sep. 29, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 50	Kp	2- 2- 2o 2- 1o 0+ 1- 1-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- very bright SW- moderately bright
Indices		Rz: 0 10cm flux: 76 Flare: 0/21.2 Ca: 7.3 Ip: 0 Ia: 1
Solar Regions		(13871) N26
Sunspots		

Sep. 30, 1975 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES		
Bursts	cm	
	dm	
	m	
	Dkm	
SID		
X-Rays		
Ap 200	Kp	0+ 0o 1- 0+ 0+ 0+ 1- 2-
	sc	
Aurora	USSR	
	W.E.	
Cosmic Rays		
Green Corona		E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- no data SW- no data
Indices		Rz: 7 10 cm flux: 76 Flare: 0/24.0 Ca: 8.4 Ip: 0 Ia: 1
Solar Regions		
Sunspots		

REGIONAL FLARE INDEX
INCLUDES ALL FLARES

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13*20	N 5	75/09/01.1	75/09/03	75/09/03	3.38	3.38	1
13*26	N 9	75/09/05.0	75/09/28	75/09/10	85.20	6.09	23
13*32	S 8	75/09/12.1	75/09/05	75/09/16	35.57	2.96	12
13*61	N12	75/09/16.9	75/09/21	75/09/21	7.60	7.60	1
13*46	N 8	75/09/14.5	75/09/17	75/09/23	86.13	12.30	22
13*59	N 7	75/09/23.2	75/09/20	75/09/25	28.32	4.72	7
13*60	S 6	75/09/24.8	75/09/20	75/09/20	1.90	1.90	1
13*62	N 3	75/09/27.3	75/09/24	75/09/24	6.76	6.76	2

Note:
Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no flares during its disk passage.

MISCELLANEOUS DATA

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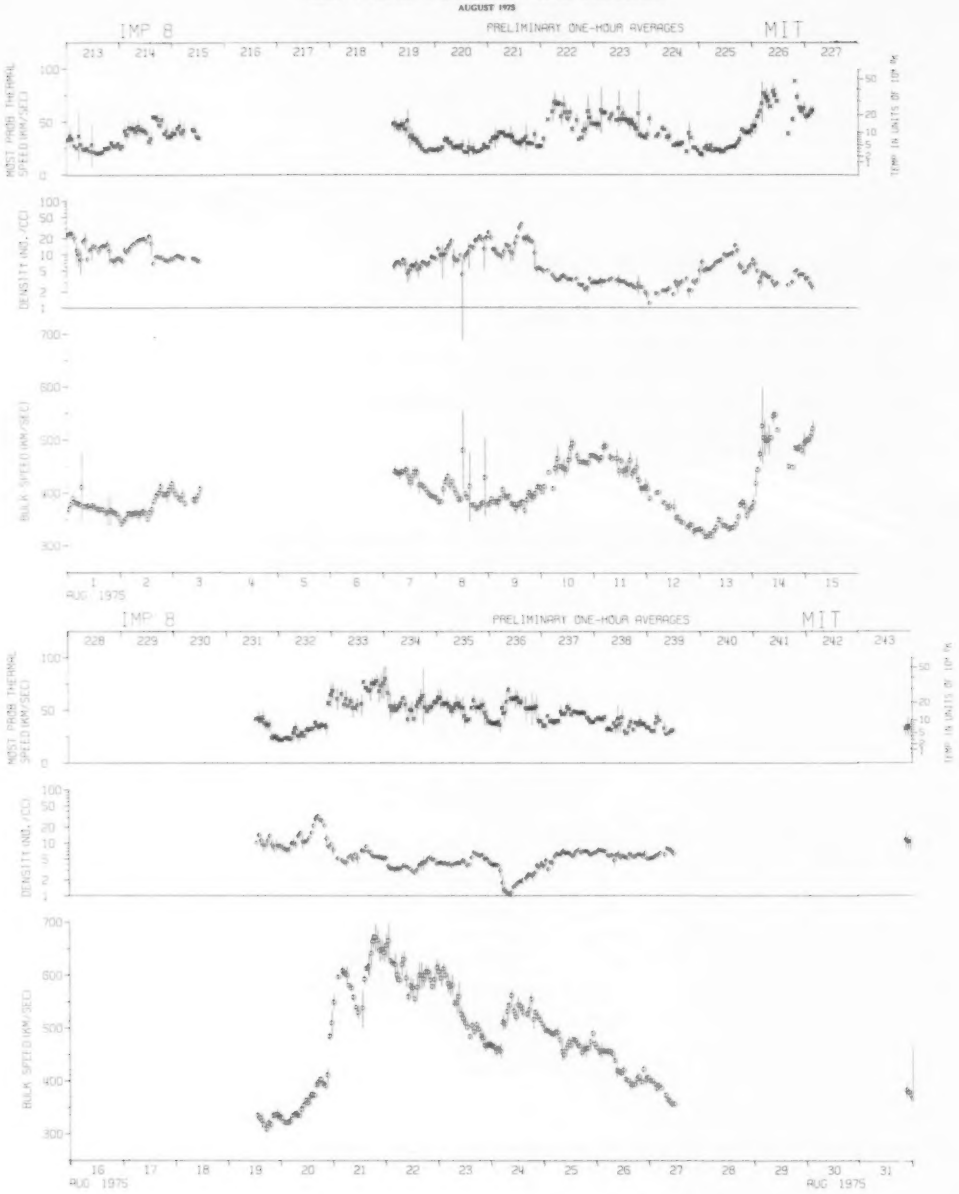
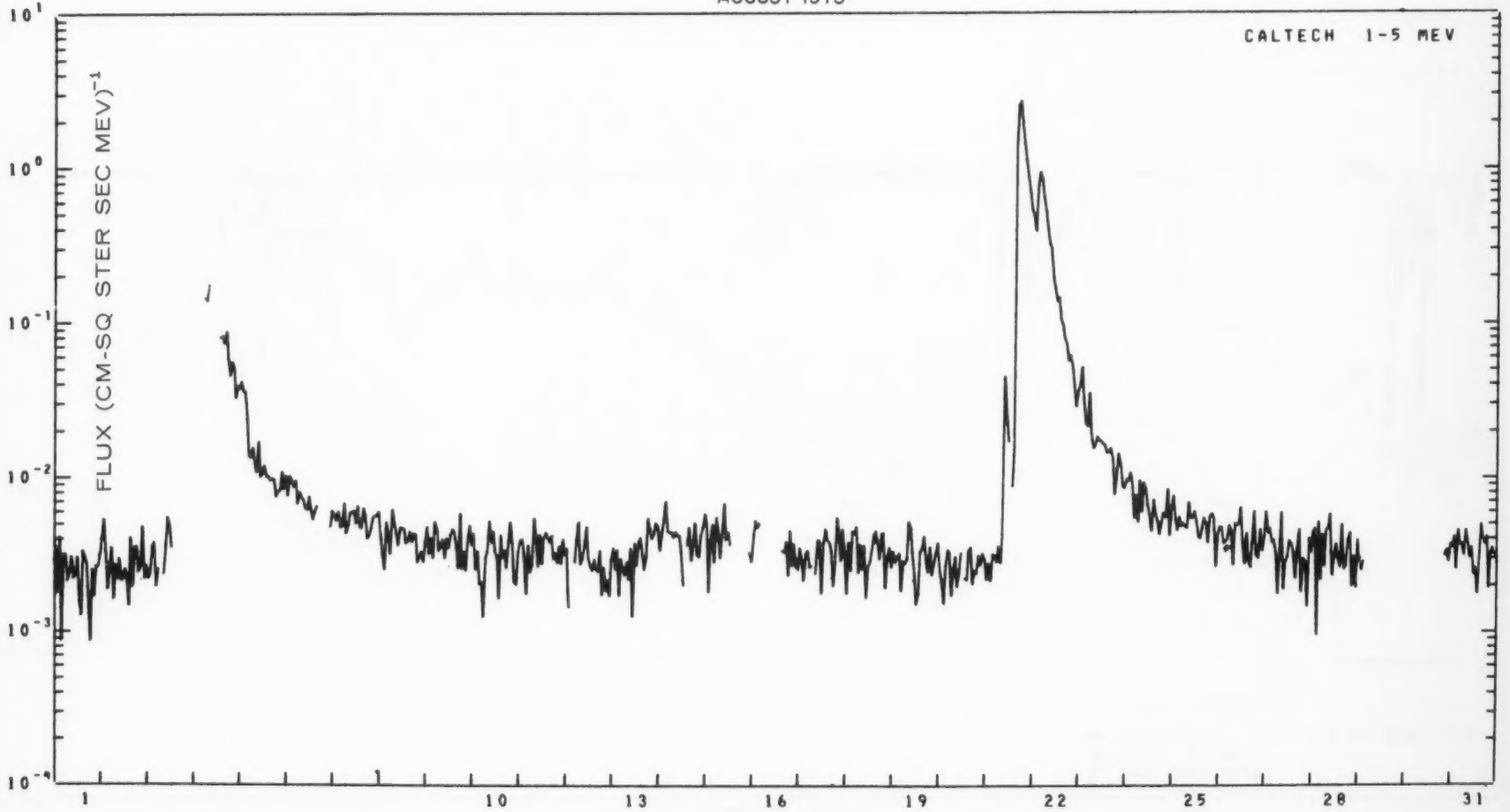
IMP 7 AND 8 SOLAR WIND PLASMA

AUGUST 1975



IMP 7 AND 8 ELECTRONS

AUGUST 1975



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Misc
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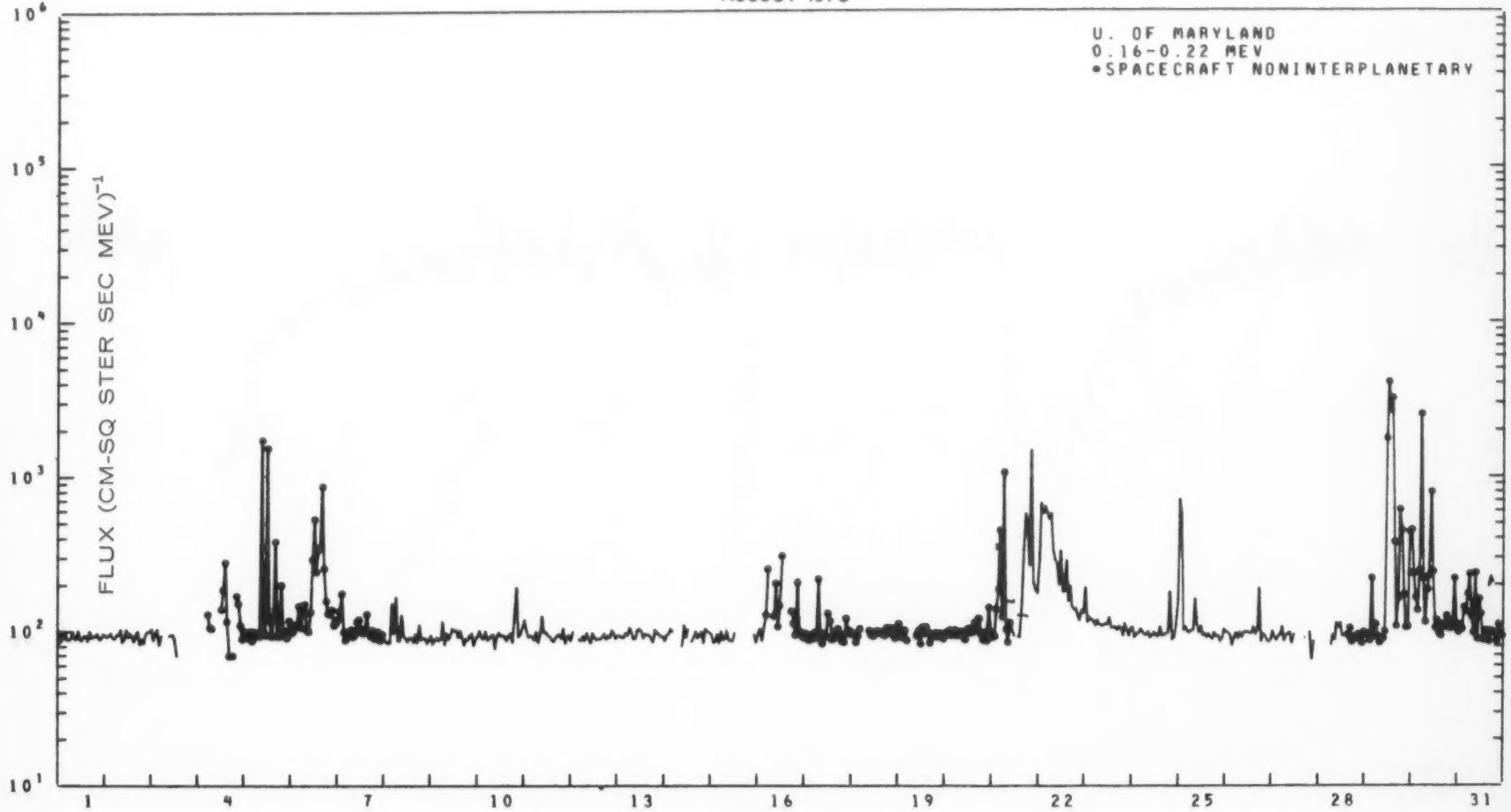
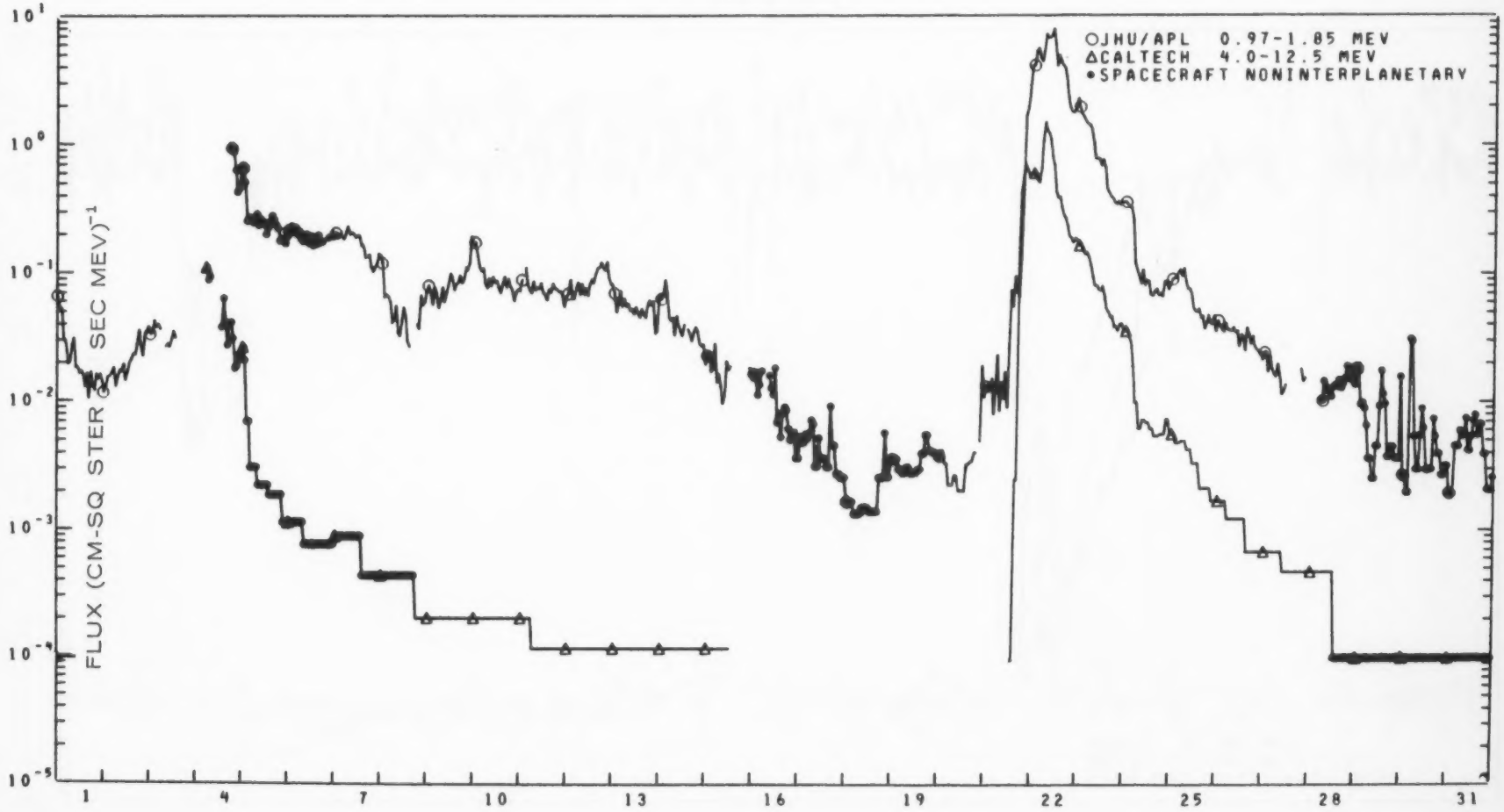
IMP 7 AND 8 LOW ENERGY PROTONS

AUGUST 1975



IMP 7 AND 8 INTERMEDIATE ENERGY PROTONS

AUGUST 1975



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Misc
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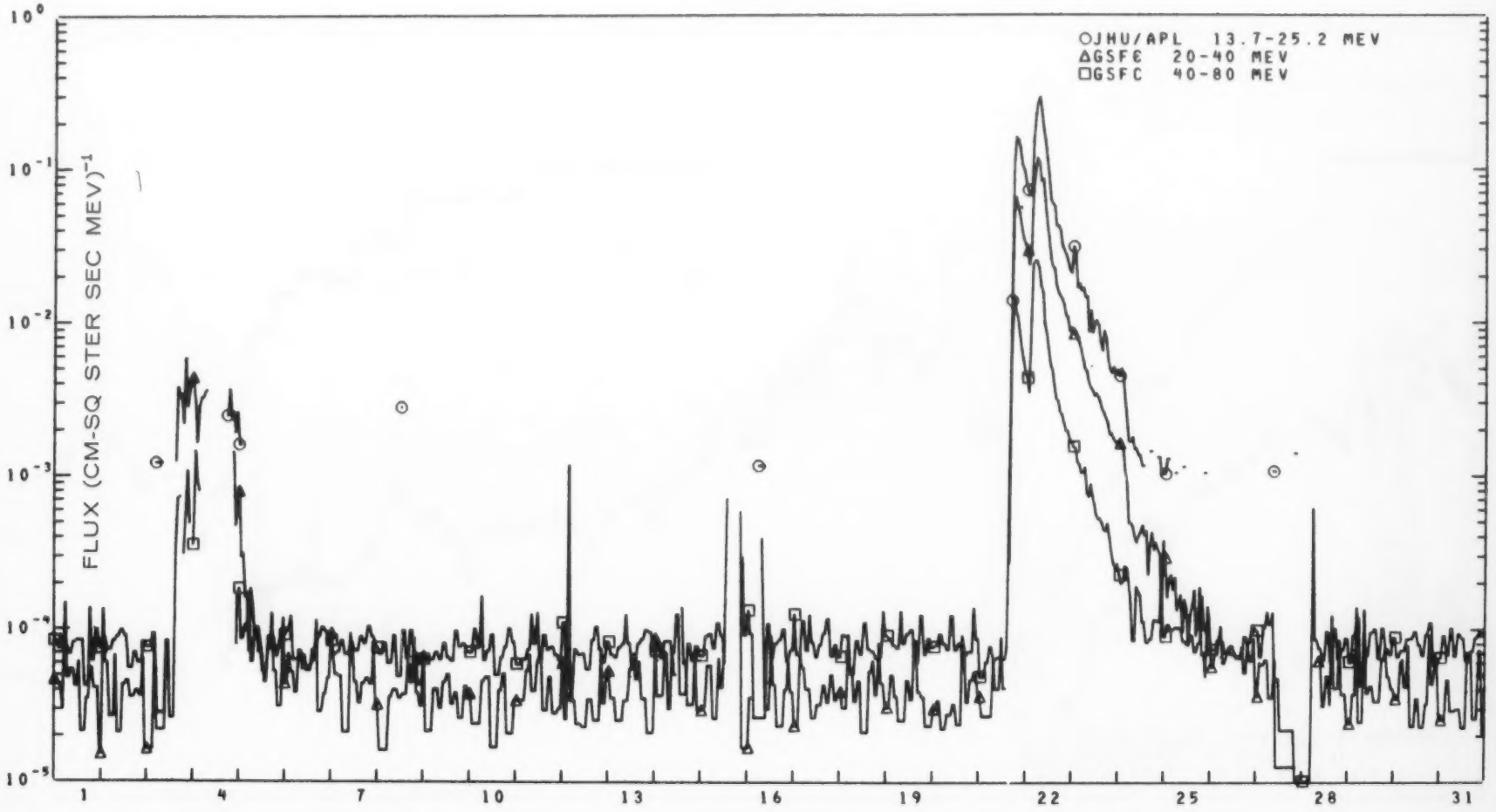
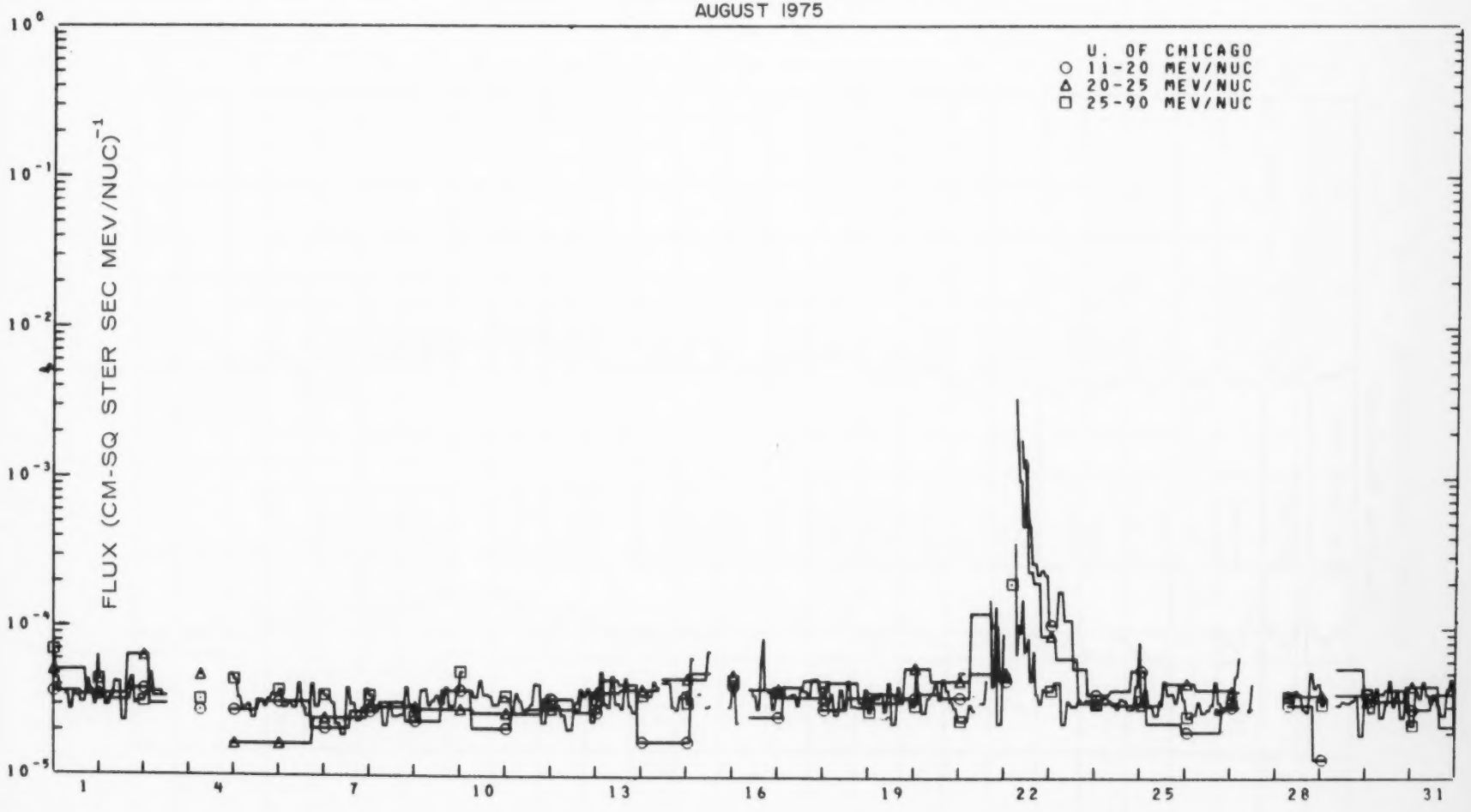
IMP 7 AND 8 HIGH ENERGY PROTONS

AUGUST 1975





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COSMIC RAY INDICES

(Neutron Monitors)

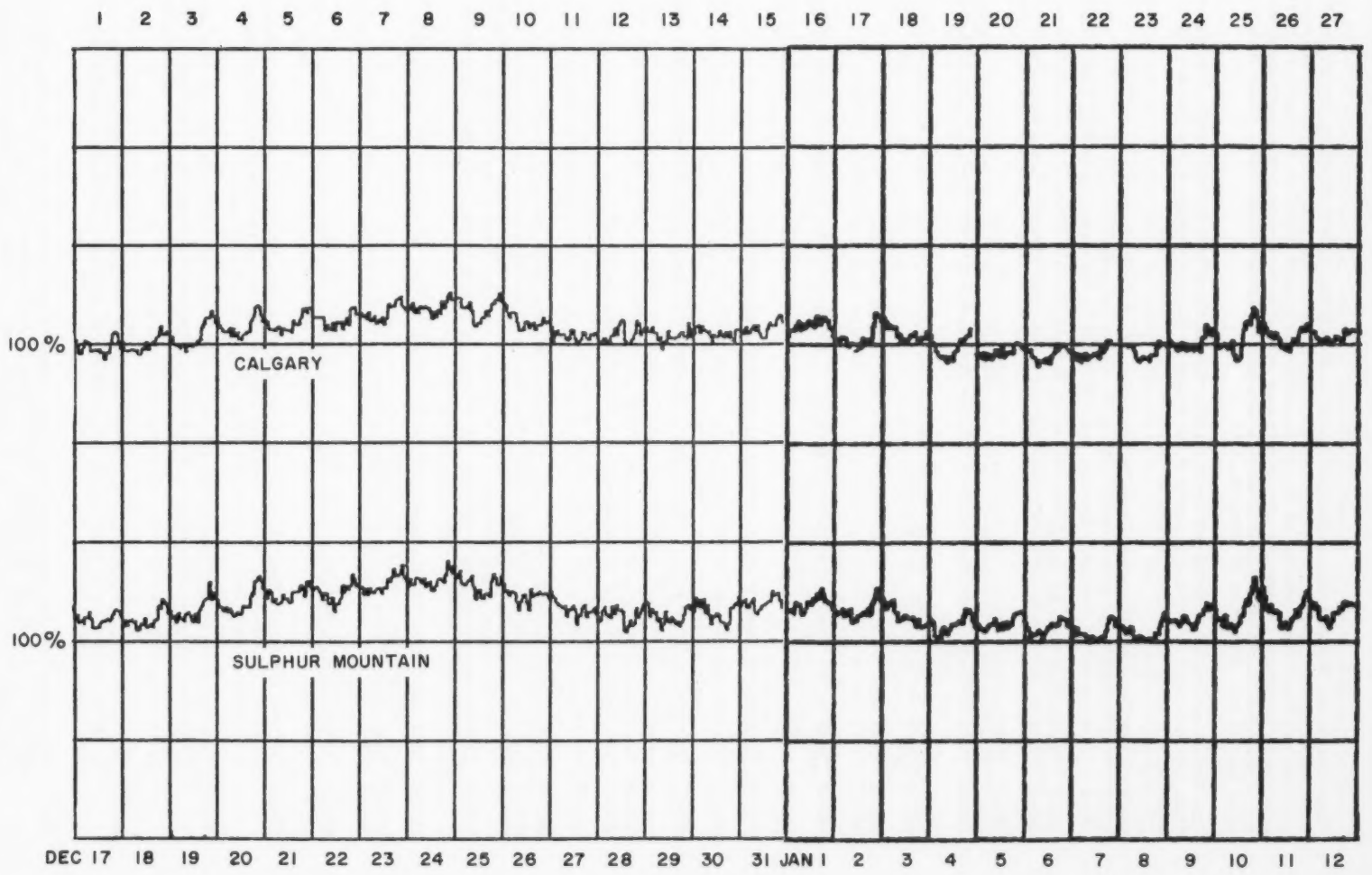
JANUARY 1976

	CALGARY	SULPHUR MT.
JAN. 1976	Average cts/hr	Average cts/hr
1	11798.1	8935.4
2	11726.3	8906.1
3	11746.9	8881.3
4	11662.0	8845.0
5	11640.8	8850.1
6	11624.4	8826.6
7	11638.2	8807.3
8	11645.8	8807.7
9	11693.5	8870.2
10	11726.9	8899.7
11	11731.7	8903.1
12	11732.7	8906.0
13	11763.8	8907.6
14	11778.7	8912.2
15	11756.8	8915.9
16	11758.7	8893.7
17	11810.7	8914.4
18	11774.6	8901.0
19	11820.3	8922.3
20	11821.6	8924.4
21	11788.8	8895.5
22	11743.9	8868.6
23	11708.6	8840.6
24	11675.4	8839.9
25	11706.7	8868.2
26	11691.0	8837.2
27	11674.1	8822.3
28	11705.4	8829.7
29	11705.7	8846.9
30	11688.2	8822.7
31	11652.7	8791.2
MEAN	11722.4	8870.7

COSMIC RAY INDICES

(Neutron Monitors)

Bartel's Rotation 1947 (DEC 1975 - JAN 1976)



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